

AWIPS SYSTEM MODIFICATION NOTE 1 (for Electronic Systems Analysts)

Engineering Division

W/OSO321: FJZ

SUBJECT : LDAD Dual-Dial Modem Cards and Cables Installation Procedure**PURPOSE** : To provide instructions for additional modem card, patch cable and data cable installation.**EQUIPMENT AFFECTED** : Advanced Weather Interactive Processing System (AWIPS) Modem Nest at all PACE sites, CONUS Regional Headquarters, and Honolulu, HI**REQUIRED ITEMS**

Items included in the PRC provided modification kit	Available locally
<ul style="list-style-type: none"> Ⓒ Two CODEX 3262 Dual-Dial Modem Cards Ⓒ Four RJ-11 to RJ-11 TELCO Patch Cables Ⓒ Four RS-232 Data Cables Ⓒ Installation Procedures Ⓒ Site Receiving Report 	<ul style="list-style-type: none"> Ⓒ Electrostatic wrist strap

AFFECTED SITES

Weather Forecast Offices			Hon
Eastern Region	Central Region	Regional Headquarters	
Portland, ME (GYX)	Bismarck, ND (BIS)		
State College, PA (CTP)	Indianapolis, IN (IND)		
Charleston, WV (RLX)	Chicago, IL (LOT)		
Wakefield, VA (AKQ)	Cheyenne, WY (CYS)		
Boston, MA (BOX)	Omaha, NE (OAX)		
Southern Region	Topeka, KS (TOP)		
Mobile, AL (MOB)	Western Region		
Jackson, MS (JAN)	Los Angeles, CA (LOX)		
Ft. Worth, TX (FWD)	Seattle, WA (SEW)		
Knoxville, TN (MRX)	Portland, OR (PQR)		
Midland, TX (MAF)	Salt Lake City, UT (SLC)		
Phoenix, AZ (PSR)	Pacific Region		

BACKGROUND

This procedure describes the modular modem card installations, the TELCO Patch Panel to Modem Nest Backplane patch cable installations, and the Modem Nest to LDAD Terminal Server data cable installations. For reference purposes, the AWIPS AS2 rack (rack # 4) contains the Modem Nest and the LDAD rack (rack # 7) contains the Terminal Server. **So that PRC engineering assistance is available, the Electronic Systems Analysts are asked to perform the installation between the hours of 8:00 AM and 5:00 PM EDT.**

A. PROCEDURE

2. Locate the box containing the Modular Modem Cards, the RJ-11 to RJ-11 patch cables and the RS-232 data cables.
3. Open the front door of the Modem Nest and remove the filler panels from slots 9 through 13 (figure 1). Break off and discard the two end panels and replace the three remaining panels over slots 9 through 11.

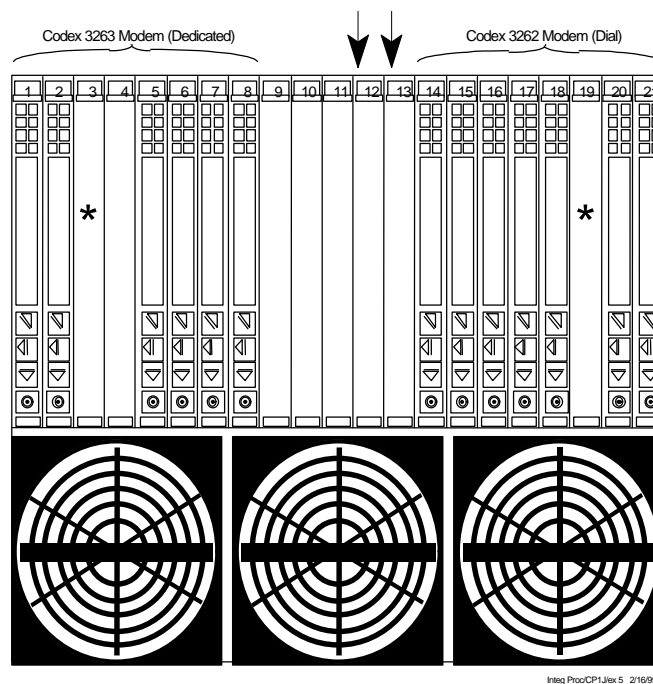


Figure 1: AWIPS/LDAD Modem Nest (Front)

4. Remove the new modem cards from their protective packaging and insert them into slots 12 and 13 of the AWIPS/LDAD Modem Nest.

5. Configure the modems in accordance with the instructions given in AWIPS System Administration Note 6 located at the following URL:
http://www.oso3.nws.noaa.gov/awip_new.htm
6. After the modems have been configured, close the front door of the Modem Nest.
7. Using the provided RJ-11 to RJ-11 patch cables, connect the TELCO Patch Panel to the Modem Nest backplane using the chart below.

Patch Panel 1 Port 23	Modem Nest Backplane Port B13
Patch Panel 1 Port 24	Modem Nest Backplane Port A13
Patch Panel 1 Port 7	Modem Nest Backplane Port B12
Patch Panel 1 Port 8	Modem Nest Backplane Port A12

8. Install RS-232 cables to the LDAD rack in accordance with the chart below.

LDAD terminal server, port 14	Modem nest, modem port A12
LDAD terminal server, port 13	Modem nest, modem port B12
LDAD terminal server, port 12	Modem nest, modem port A13
LDAD terminal server, port 11	Modem nest, modem port B13

9. Configure the LDAD Terminal Server ports in accordance with AWIPS System Administration Note 6 located at the following URL:
http://www.oso3.nws.noaa.gov/awip_new.htm

This completes the LDAD Dual-Dial Modem Cards and Cables Installation Procedure.

B. REPORTING MODIFICATION

Target date for LDAD Dual-Dial Modem Cards and Cables Installation shall be coordinated with the AWIPS focal point or the Meteorologist-in-Charge. Report the completed modification on WS-Form A-26, Engineering Management Reporting System, according to the instructions in EHB-4, part 2, using reporting code AWIPS.

C. TECHNICAL ASSISTANCE

Please refer any technical questions regarding this note to Franz Zichy (W/OSO321) at 301-713-1833 x128. For assistance with the installation procedures please call: Tom Jackson (PRC) at (703) 556-3567.

John McNulty
Chief, Engineering Division

WS HQ USE ONLY		WS FORM A-26 (4/94) <small>Supersedes WS Form A-25 and WS Form H-22, which are obsolete</small>			U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE		Document Number G 49978	
		ENGINEERING MANAGEMENT REPORTING SYSTEM MAINTENANCE RECORD						
General Information		1. Open Date 11 / 15 / 99	Time 0900	2. Initials JMM	3. Response Priority (check one) <input type="radio"/> Immediate <input type="radio"/> Low <input type="radio"/> Routine <input checked="" type="radio"/> Not Applicable		4. Close Date 11 / 15 / 99	Time 1100
5. Description Perform Modification I.A.W. AWIPS System Modification Note 1								
Equipment Information		6. Station ID CTP	7. Equipment Code AWIPS	8. Serial Number 001		9. TM M	10. AT M	11. How Mal. 999
12. EQUIPMENT OPERATIONAL STATUS TIMES		a. Fully Operational <input type="text"/>	b. Logistics Delay <input type="text"/>	Partly Operational c. All Other 2:00		d. Logistics Delay <input type="text"/>	Not Operational e. All Other <input type="text"/>	
13. Parts Failure Information							14. Work Load Information	
Block #	a. ASN	b. NSN	c. TM	d. AT	e. How Mal.	f. Qty.	g. Maint. Hrs.	Type
1	R400-41A2A4	5895-01-377-7114						a. Routine
2								b. Non-routine
3								c. Travel
4								d. Misc.
5								e. Overtime
Miscellaneous Information		15. Maintenance Comments Installed 2 CODEX Modem Cards, TELCO Patch Cable and Data Cables I.A.W. AWIPS System Mod Note 1.						16. Initials JMM
17. SPECIAL PURPOSE REPORTING	a. Mod. No. 1	b. Mod./Act./Dnstr. Date 11/15/99	c.	d.	e.			
18. CONFIGURATION MGMT. REPORTING (use as directed)	a. Block #	b. Manufacturer's Part No. of New Part					c. Revision No. of New Part	